NC/QC/W-06/2018-19/HN-PCC4 **Date: 02-04-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	64.30	0 -20	30- 70
10mm	31.80	0 -5	10- 35
4.75mm	4.10	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	100.00	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	96.30	60-95	75-100	85-100	
01.18	84.60	30-70	55-90	75-100	
600.mic	45.30	15-34	35-59	60-79	
300.mic	18.45	5-20	8-30	12-40	
150.mic	6.90	0-10	0-10	0-10	

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For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
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Proprietor

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NC/QC/W-06/2018-19/HN-C6 **Date: 03-04-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**164 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.75 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.02 mm**	Shall not be more than 10 mm
5	Compressive strength e) 3 days (average of three results)	**28.35N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/W-06/2018-19/HN-PCC5 **Date: 03-04-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.05	0 -20	30- 70
10mm	30.75	0 -5	10- 35
4.75mm	4.10	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	100.00	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	98.45	60-95	75-100	85-100	
01.18	85.05	30-70	55-90	75-100	
600.mic	47.60	15-34	35-59	60-79	
300.mic	16.20	5-20	8-30	12-40	
150.mic	7.90	0-10	0-10	0-10	

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NC/QC/W-06/2018-19/HN-C7 **Date: 05-04-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	162 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.90 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.19 mm	Shall not be more than 10 mm
5	Compressive strength f) 3 days (average of three results)	28.42 N/Sq mm	Shall not be less than 27 N/Sqmm

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EMAIL:newzen576@gmail.com

NC/QC/W-06/2018-19/HN-PCC6 **Date: 05-04-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	62.30	0 -20	30- 70
10mm	32.60	0 -5	10- 35
4.75mm	4.10	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	100.00	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	96.45	60-95	75-100	85-100	
01.18	84.60	30-70	55-90	75-100	
600.mic	46.20	15-34	35-59	60-79	
300.mic	17.90	5-20	8-30	12-40	
150.mic	6.80	0-10	0-10	0-10	

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NC/QC/W-06/2018-19/HN-C8 **Date: 05-04-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.80 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.04 mm**	Shall not be more than 10 mm
5	Compressive strength g) 3 days (average of three results)	**28.15N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/W-06/2018-19/HN-PCC7 **Date: 05-04-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.20	0 -20	30- 70
10mm	29.75	0 -5	10- 35
4.75mm	4.15	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	*Zone-II*	*Zone -III*	
04.75	**100.00**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**98.45**	60-95	75-100	85-100	
01.18	**87.20**	30-70	55-90	75-100	
600.mic	**47.60**	15-34	35-59	60-79	
300.mic	**16.25**	5-20	8-30	12-40	
150.mic	**8.30**	0-10	0-10	0-10	

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For Newzen Consultants

NC/QC/W-06/2018-19/HN-C9 **Date: 08-04-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	162 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.75 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.06mm	Shall not be more than 10 mm
5	Compressive strength h) 3 days (average of three results)	28.36N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/W-06/2018-19/HN-PCC8 **Date: 08-04-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.75	0 -20	30- 70
10mm	31.50	0 -5	10- 35
4.75mm	4.25	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	100.00	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	98.15	60-95	75-100	85-100	
01.18	84.30	30-70	55-90	75-100	
600.mic	47.80	15-34	35-59	60-79	
300.mic	16.45	5-20	8-30	12-40	
150.mic	6.90	0-10	0-10	0-10	

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Page No. 1/1,

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Yelahanka Zone
Bangalore

NC/QC/W-06/2018-19/HN-CB5 **Date: 18-04-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-04-19	18-04-19	07	22500	525	23.33	**23.19**
	002	"	"	"	"	530	23.56	
	003	"	"	"	"	510	22.67	

Page No. 1/1,

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Proprietor

NC/QC/W-06/2018-19/HN-CB6 **Date: 20-04-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-04-19	20-04-19	07	22500	520	23.11	**23.33**
	002	"	"	"	"	535	23.78	
	003	"	"	"	"	520	23.11	

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For Newzen Consultants Bangalore

Asst. Executive Engineer
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NC/QC/W-06/2018-19/HN-CB7 **Date: 20-04-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-04-19	20-04-19	07	22500	535	23.78	**23.41**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	520	23.11	

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NC/QC/W-06/2018-19/HN-CB8 **Date: 23-04-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-04-19	23-04-19	07	22500	530	23.56	**23.04**
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	510	22.67	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Proprietor

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NC/QC/W-06/2018-19/HN-CB9 **Date: 25-04-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-04-19	25-04-19	07	22500	530	23.56	**23.11**
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	510	22.67	

Page No. 1/1,

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NC/QC/W-06/2018-19/HN-CB10 **Date: 29-04-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-04-19	29-04-19	07	22500	525	23.33	**22.89**
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	505	22.44	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone

Proprietor

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